

---

CLAIMS

---

1. A biomolecule (excluding a nucleic acid) to be immobilized and used for a method of detecting a substance capable of interacting with the biomolecule using the immobilized biomolecule, wherein the biomolecule is bound to a compound having a group capable of binding onto a substrate for immobilizing a biomolecule to which the biomolecule is immobilized or a carrier provided on the substrate.

2. A biomolecule according to Claim 1, wherein the compound having a group capable of binding onto a substrate for immobilizing a biomolecule or a carrier provided on the substrate is a polymer that includes a compound having an unsaturated bond.

3. A biomolecule according to Claim 2, wherein the polymer has an average degree of polymerization of 2 or more to 1,000,000 or less.

4. A biomolecule according to Claim 2 or 3, wherein a monomer constituting the polymer is a nucleotide.

5. A biomolecule according to Claim 1, wherein the compound having a group capable of binding onto a substrate for immobilizing a biomolecule or a carrier provided on the substrate is a compound

---

having at least one photoreactive group, and selected from compounds each having a nitrene precursor, carbene precursor, or ketone group.

6. A biomolecule according to any one of Claims 1 to 5, wherein the biomolecule is selected from a protein, sugar, antigen, antibody, peptide, and enzyme.

7. A substrate for immobilizing a biomolecule, comprising: a substrate for immobilizing a biomolecule; and a biomolecule according to any one of Claims 1 to 6 immobilized on the substrate.

8. A method of producing a substrate for immobilizing a biomolecule, comprising: contacting the biomolecule according to any one of Claims 1 to 6 with a substrate for immobilizing a biomolecule; and irradiating a contact portion with an electromagnetic ray.

9. A method of detecting a substance capable of interacting with an immobilized biomolecule using the immobilized biomolecule, wherein the substrate for immobilizing a biomolecule according to Claim 7 is used.